

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 09.08.2022 Version 2

# TEKKİM

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalog No. TK.170581.00000  
Product Name Sulfuric Acid %95-98  
Cas no 7664-93-9

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial use. Scientific research and development.

#### 1.2.2. Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.  
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA  
Telephone 0224 243 21 71  
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Company Representative Erhan DİLER

**1.4 Emergency Telephone Number +90 506 990 36 86**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Corrosive to metals, Category 1  
Skin Corrosion, Subcategory 1A  
Serious eye damage, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H290 May corrode metals.

H314 Causes severe skin burns and eye damage.

Precautionary Statements (SEA)

Prevention

P234 Store only in original container.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT try to vomit.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.

P304+P340+P310 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing. Call the NATIONAL POISON ADVICE CENTER or doctor/physician immediately.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.



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## SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

### 3.1 Maddeler

EC No	231-639-5
Molar mass	98.08 g/mol
Cas No	7664-93-9
Concentration	(<= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Remove casualty to fresh air and keep warm and at rest..
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	Give up to two glasses of water. Get medical help immediately. Do not try to neutralize. Avoid vomiting (risk of perforation!).

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

Use extinguishing measures appropriate to the environment.

*Unsuitable extinguishing media*

There is no restriction for this item.

### 5.2 Special hazards arising from the substance or mixture

May form free in case of fire: Sulfur oxides. It is not flammable. All-round fire can release dangerous vapours.

### 5.3 Advice for firefighters

*Special protective equipment for firefighters*

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

### 5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

### 6.4 Reference to other sections

Disposal: see section 13.



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## 6.5 Additional information

Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

*Advices on safe handling*

Observe label precautions.

*Advices on general occupational hygiene*

Change contaminated clothing. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

Keep container tightly closed in dry and well-ventilated places. Metal containers should not be used.

### 7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Sulfuric acid (7664-93-9)

EN OEL 8-hour fixed for reference time measured or calculated time weighted average (TWA): 0,05 mg/m<sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

#### Personal protection equipment

*Eye/face protection*

Fully fitting safety glasses

*Hand protection*

Hand protection

in full contact

Glove material : Viton (R)

Glove thickness: 0.7 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Butyl rubber

Glove thickness: 0.7 mm

Absorption time: > 120 minutes

The gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resulting standard EN374.

*Other skin protection*

Acid-resistant protective clothing

*Respiratory protection*

Required when vapors are generated.

Recommended filter type :P 2 Filter (according to DIN 3181) for solid and liquid particles of harmful elements.

## SECTION 9: Physical and chemical Properties



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## 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	Odorless
Odour threshold	Not applicable.
pH value	0.3 50 g/l 25 °C
Melting point/freezing point	-20 °C
Freezing point	No information.
Initial boiling point and boiling range	335 °C 1.013 hPa
Flash point	It doesn't shine.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
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Vapour pressure	0.0001 hPa 20 °C
Vapour density	3,4
Density	1.84 g/cm <sup>3</sup> 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	24 mPa.s 20 °C
Explosive properties	Not classified as explosive.
Oxidising properties	It has oxidation potential.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

It has a corrosive effect. Strong oxidizing agent.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

Alkali metals, alkali compounds, ammonia, aldehydes, acetonitrile, alkaline earth metals, alkalines, acids, alkaline earth compounds, metals, metal alloys, phosphorus oxides, phosphorus, hydrides, halogen-halogen compounds, oxyhalogenic compounds, permanganates, nitrates, carbides, Violent reactions possible with combustible materials, organic solvent, acetylidene, nitriles, organic nitro compounds, anilines, peroxides, picrates, nitrides, lithium silicide, iron (III) compounds, bromates, chlorates, amines, perchlorates, hydrogen peroxide.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Animal/plant tissues. Metals. Contact with metals liberates hydrogen gas.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects



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Acute oral toxicity  
LD50 Oral - Rat - male and female - 2,140 mg/kg (ECHA)  
If inhaled: Corrosive to respiratory system.

Skin corrosion/irritation  
Skin - Rabbit  
Result: It causes a large amount of damage to the tissue and has devastating effects. (IUCLID)

Serious eye damage/eye irritation  
Causes serious eye damage.

## 11.2 Additional information

It has an extremely destructive effect on mucous membranes, upper respiratory tract, eyes and skin tissues. Laryngeal spasm, inflammation and edema, bronchial spasm, inflammation and edema, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, pulmonary edema. It may take time to see the effects.  
After inhalation of dusts/vapours: damage to affected mucous membranes. After skin contact: with wound formation severe burning. After eye contact: burning, corneal lesions. After swallowing: severe pain (risk of perforation!), nausea, vomiting and diarrhoea. Possible pyloric stenosis after a few weeks of concealment.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates  
static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Testing Guide 202)

Toxicity to algae (algae)  
static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Testing Guide 201)

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

### 12.6 Other adverse effects

Biological effects:  
Forms corrosive mixtures even when diluted.  
Harmful effect due to pH change.  
It endangers drinking water supplies if allowed to enter soil or water.  
Discharge into the environment should be prevented.

## SECTION 13: Disposal considerations

### Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
UN 1830	UN 1830	UN 1830	UN 1830	UN 1830

### 14.2 UN proper shipping name



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SULPHURIC ACID with more than 51% acid 8, II, Segregation Group: 1 (Acids). MARINE POLLUTANT NP

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## 14.3 Transport hazard class(es)

8 8 8 8 8



## 14.4 Packing group

II II II II II

## 14.5 Environmental hazards

NO NO NO NO NO

No information available. No information available. No information available. No information available. No information available.

## 14.6 Special Precautions for User:

No information available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

## SECTION 16: Other informations

### Full text of H statements

H290 May corrode metals.

H314 Causes severe skin burns and eye damage.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information:

05069903686



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